

PATENT

IN THE CLAIMS:

Please amend claims 1, 8, 11, 13, 38, 41, 45, 46 and 48 as indicated in the following.

Please cancel claims 6, 7, 21-27, 39, 40, 44, 47, 49 and 50 without prejudice as indicated in the following.

Claims Listing:

1. (Currently Amended) A method comprising:

identifying ~~an operating characteristic of an instruction buffer, the operating characteristic comprising at least one of a buffer fullness, a rate of change of a~~ number of pending instructions stored in ~~[[the]]an~~ instruction buffer ~~or a type of instructions stored in the instruction buffer;~~ and
adjusting a system characteristic based on the ~~operating characteristic~~ rate of change of the number of pending instructions, wherein a power consumption of a system is modified based on the system characteristic.

2. – 7. (Canceled)

8. (Currently Amended) The method as in Claim 1, wherein adjusting the system characteristic includes altering the number of bits used to represent a multimedia data processed by the system.

9. (Original) The method as in Claim 8, wherein the multimedia data includes video data.

10. (Original) The method as in Claim 8, wherein the multimedia data includes audio data.

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11. (Currently Amended) ~~The method as in Claim 1.~~ A method comprising:
identifying an operating characteristic of an instruction buffer, the operating
characteristic comprising at least one of a buffer fullness, a rate of change of a
number of pending instructions stored in the instruction buffer or a type of
instructions stored in the instruction buffer; and
adjusting a system characteristic based on the operating characteristic, wherein a power
consumption of a system is modified based on the system characteristic and
wherein adjusting the system characteristic includes modifying a clock speed.
12. (Previously Presented) The method as in Claim 11, wherein a nominal power provided to the system is modified based on an amount of power needed for the clock speed used.
13. (Currently Amended) The method as in Claim 11, wherein a number of bits used to represent a multimedia data processed by the system is reduced.
14. – 15. (Canceled)
16. (Previously Presented) The method as in Claim 1, wherein adjusting the system characteristic includes modifying a nominal power provided to the system.
17. (Previously Presented) The method as in Claim 16, wherein a clock speed is modified based on the modification of the nominal power.
18. (Previously Presented) The method as in Claim 16, wherein a number of bits used to represent multimedia data is modified based on the modification of the nominal power.
19. – 20. (Canceled)
21. – 27. (Canceled)

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28. (Previously Presented) A system comprising:
- an instruction buffer to store pending instructions;
 - a threshold register to store a statistic threshold;
 - an buffer monitor to:
 - track a buffer statistic;
 - provide a buffer status of said buffer statistic to a power threshold, wherein said buffer status represents a comparison of said buffer statistic and said statistic threshold; and
 - a power module to initiate a power conservation feature based on said buffer status.
29. – 30. (Canceled)
31. (Original) The system as in Claim 28, wherein said pending instructions include multimedia instructions.
32. (Original) The system as in Claim 31, wherein said multimedia instructions include display instructions.
33. (Canceled)
34. (Original) The system as in Claim 28, wherein said buffer statistic includes a fullness of said instruction buffer.
35. (Original) The system as in Claim 28, wherein said buffer statistic includes a number of pending instructions in said instruction buffer.
36. (Original) The system as in Claim 28, wherein said buffer statistic includes a rate of change in a number of pending instructions in said instruction buffer.
37. (Original) The system as in Claim 28, wherein said buffer statistic includes types of instructions in said instruction buffer.

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38. (Currently Amended) A computer readable medium tangibly embodying a program of instructions to manipulate a data processor to:

~~identify an operating characteristic of an instruction buffer, the operating characteristic comprising at least one of a buffer fullness, a rate of change of a number of pending instructions stored in [[the]]an instruction buffer or a type of instructions stored in the instruction buffer; and~~

adjust a system characteristic based on the operating characteristic rate of change of the number of pending instructions, wherein a power consumption of the system is modified based on the system characteristic.

39. (Canceled)

41. (Currently Amended) The computer readable medium as in Claim 38, wherein the system characteristic includes a number of bits used to represent a multimedia data.

42. (Previously Presented) The computer readable medium as in Claim 38, wherein the system characteristic includes a clock speed used to process the instructions.

43. (Original) The computer readable medium as in Claim 38, wherein the system characteristic includes a supported power.

44. (Canceled)

45. (Currently Amended) The method as in ~~Claim 6~~Claim 1, wherein adjusting the system characteristic includes modifying a clock speed.

46. (Currently Amended) The method as in ~~Claim 6~~Claim 1, wherein the adjusting the system characteristic includes modifying a maximum power provided to the system.

47. (Canceled)

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48. (Currently Amended) ~~The method as in Claim 7,~~ A method comprising:
identifying an operating characteristic of an instruction buffer, the operating
characteristic comprising at least one of a buffer fullness, a rate of change of a
number of pending instructions stored in the instruction buffer or a type of
instructions stored in the instruction buffer; and
adjusting a system characteristic based on the operating characteristic, wherein the
operating characteristic includes a type of instructions stored in the instruction
buffer and wherein adjusting the system characteristic includes modifying a clock speed.
49. (Canceled)
50. (Canceled)
51. (Previously Presented) The system as in Claim 28, wherein the power conservation feature includes a modification of a clock speed.
52. (Previously Presented) The system as in Claim 28, wherein the power conservation feature includes a modification of a maximum power provided to the system.
53. (Previously Presented) The system as in Claim 28, wherein the power conservation feature includes a modification a number of bits to represent multimedia data.